

## **RAW SEQUENCE LISTING**

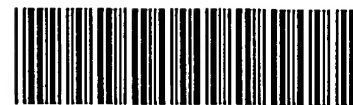
**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/029,009A

Source: 1/Fw/6

Date Processed by STIC: 6/9/05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 06/09/2005

PATENT APPLICATION: US/10/029,009A

TIME: 15:32:00

Input Set : A:\10845-033001.txt

Output Set: N:\CRF4\06092005\J029009A.raw

```

4 <110> APPLICANT: Felsch, Jason S.
5     Annis, David Allen
6     Kalghatgi, Krishna
7     Makara, Greg
8     Hou, Yongmin
10 <120> TITLE OF INVENTION: AFFINITY SELECTION-BASED SCREENING OF HYDROPHOBIC PROTEINS
12 <130> FILE REFERENCE: 10845-033001
14 <140> CURRENT APPLICATION NUMBER: US 10/029,009A
15 <141> CURRENT FILING DATE: 2001-12-19
17 <150> PRIOR APPLICATION NUMBER: US 60/258,970
18 <151> PRIOR FILING DATE: 2000-12-29
20 <160> NUMBER OF SEQ ID NOS: 29
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 8
26 <212> TYPE: PRT
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: epitope tag sequence
32 <400> SEQUENCE: 1
33 Asp Tyr Lys Asp Asp Asp Asp Lys
34 1           5
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 9
38 <212> TYPE: PRT
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: epitope tag sequence
44 <400> SEQUENCE: 2
45 Glu Glu Glu Tyr Met Pro Met Glu
46 1           5
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 9
50 <212> TYPE: PRT
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: epitope tag sequence
56 <400> SEQUENCE: 3
57 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
58 1           5
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 12
62 <212> TYPE: PRT

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63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: epitope tag sequence
68 <400> SEQUENCE: 4
69 Lys His Lys Leu Glu Gln Leu Arg Asn Ser Gly Ala
70 1 5 10
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 11
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: epitope tag sequence
80 <400> SEQUENCE: 5
81 Gln Pro Glu Leu Ala Pro Glu Asp Pro Glu Asp
82 1 5 10
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 39
86 <212> TYPE: PRT
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: epitope tag sequence
92 <400> SEQUENCE: 6
93 Met Asn Gly Thr Glu Gly Pro Asn Phe Tyr Val Pro Phe Ser Asn Lys
94 1 5 10 15
95 Thr Gly Val Val Arg Ser Pro Phe Glu Ala Pro Gln Tyr Tyr Leu Ala
96 20 25 30
97 Glu Pro Trp Gln Phe Ser Met
98 35
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 488
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: target sequence
108 <400> SEQUENCE: 7
109 Met Lys His Lys Leu Glu Gln Leu Arg Asn Ser Gly Ala Glu Glu Glu
110 1 5 10 15
111 Glu Tyr Met Pro Met Glu Met Asn Asn Ser Thr Asn Ser Ser Asn Asn
112 20 25 30
113 Ser Leu Ala Leu Thr Ser Pro Tyr Lys Thr Phe Glu Val Val Phe Ile
114 35 40 45
115 Val Leu Val Ala Gly Ser Leu Ser Leu Val Thr Ile Ile Gly Asn Ile
116 50 55 60
117 Leu Val Met Val Ser Ile Lys Val Asn Arg His Leu Gln Thr Val Asn
118 65 70 75 80
119 Asn Tyr Phe Leu Phe Ser Leu Ala Cys Ala Asp Leu Ile Ile Gly Val
120 85 90 95
121 Phe Ser Met Asn Leu Tyr Thr Leu Tyr Thr Val Ile Gly Tyr Trp Pro
122 100 105 110

```

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123 Leu Gly Pro Val Val Cys Asp Leu Trp Leu Ala Leu Asp Tyr Val Val
124      115      120      125
125 Ser Asn Ala Ser Val Met Asn Leu Leu Ile Ile Ser Phe Asp Arg Tyr
126      130      135      140
127 Phe Cys Val Thr Lys Pro Leu Thr Tyr Pro Val Lys Arg Thr Thr Lys
128 145      150      155      160
129 Met Ala Gly Met Met Ile Ala Ala Ala Trp Val Leu Ser Phe Ile Leu
130      165      170      175
131 Trp Ala Pro Ala Ile Leu Phe Trp Gln Phe Ile Val Gly Val Arg Thr
132      180      185      190
133 Val Glu Asp Gly Glu Cys Tyr Ile Gln Phe Phe Ser Asn Ala Ala Val
134      195      200      205
135 Thr Phe Gly Thr Ala Ile Ala Ala Phe Tyr Leu Pro Val Ile Ile Met
136      210      215      220
137 Thr Val Leu Tyr Trp His Ile Ser Arg Ala Ser Lys Ser Arg Ile Lys
138 225      230      235      240
139 Lys Asp Lys Lys Glu Pro Val Ala Asn Gln Asp Pro Val Ser Pro Ser
140      245      250      255
141 Leu Val Gln Gly Arg Ile Val Lys Pro Asn Asn Asn Asn Met Pro Ser
142      260      265      270
143 Ser Asp Asp Gly Leu Glu His Asn Lys Ile Gln Asn Gly Lys Ala Pro
144      275      280      285
145 Arg Asp Pro Val Thr Glu Asn Cys Val Gln Gly Glu Glu Lys Glu Ser
146      290      295      300
147 Ser Asn Asp Ser Thr Ser Val Ser Ala Val Ala Ser Asn Met Arg Asp
148 305      310      315      320
149 Asp Glu Ile Thr Gln Asp Glu Asn Thr Val Ser Thr Ser Leu GlycHis
150      325      330      335
151 Ser Lys Asp Glu Asn Ser Lys Gln Thr Cys Ile Arg Ile Gly Thr Lys
152      340      345      350
153 Thr Pro Lys Ser Asp Ser Cys Thr Pro Thr Asn Thr Thr Val Glu Val
154      355      360      365
155 Val Gly Ser Ser Gly Gln Asn Gly Asp Glu Lys Gln Asn Ile Val Ala
156      370      375      380
157 Arg Lys Ile Val Lys Met Thr Lys Gln Pro Ala Lys Lys Lys Pro Pro
158 385      390      395      400
159 Pro Ser Arg Glu Lys Lys Val Thr Arg Thr Ile Leu Ala Ile Leu Leu
160      405      410      415
161 Ala Phe Ile Ile Thr Trp Ala Pro Tyr Asn Val Met Val Leu Ile Asn
162      420      425      430
163 Thr Phe Cys Ala Pro Cys Ile Pro Asn Thr Val Trp Thr Ile Gly Tyr
164      435      440      445
165 Trp Leu Cys Tyr Ile Asn Ser Thr Ile Asn Pro Ala Cys Tyr Ala Leu
166      450      455      460
167 Cys Asn Ala Thr Phe Lys Lys Thr Phe Lys His Leu Leu Met Cys His
168 465      470      475      480
169 Tyr Lys Asn Ile Gly Ala Thr Arg
170      485
172 <210> SEQ ID NO: 8

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173 <211> LENGTH: 431
174 <212> TYPE: PRT
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: target sequence
180 <400> SEQUENCE: 8
181 Met Asp Tyr Lys Asp Asp Asp Asp Lys Met Gly Gln Pro Gly Asn Gly
182 1 5 10 15
183 Ser Ala Phe Leu Leu Ala Pro Asn Arg Ser His Ala Pro Asp His Asp
184 20 25 30
185 Val Thr Gln Gln Arg Asp Glu Val Trp Val Val Gly Met Gly Ile Val
186 35 40 45
187 Met Ser Leu Ile Val Leu Ala Ile Val Phe Gly Asn Val Leu Val Ile
188 50 55 60
189 Thr Ala Ile Ala Lys Phe Glu Arg Leu Gln Thr Val Thr Asn Tyr Phe
190 65 70 75 80
191 Ile Thr Ser Leu Ala Cys Ala Asp Leu Val Met Gly Leu Ala Val Val
192 85 90 95
193 Pro Phe Gly Ala Ala His Ile Leu Met Lys Met Trp Thr Phe Gly Asn
194 100 105 110
195 Phe Trp Cys Glu Phe Trp Thr Ser Ile Asp Val Leu Cys Val Thr Ala
196 115 120 125
197 Ser Ile Glu Thr Leu Cys Val Ile Ala Val Asp Arg Tyr Phe Ala Ile
198 130 135 140
199 Thr Ser Pro Phe Lys Tyr Gln Ser Leu Leu Thr Lys Asn Lys Ala Arg
200 145 150 155 160
201 Val Ile Ile Leu Met Val Trp Ile Val Ser Gly Leu Thr Ser Phe Leu
202 165 170 175
203 Pro Ile Gln Met His Trp Tyr Arg Ala Thr His Gln Glu Ala Ile Asn
204 180 185 190
205 Cys Tyr Ala Asn Glu Thr Cys Cys Asp Phe Phe Thr Asn Gln Ala Tyr
206 195 200 205
207 Ala Ile Ala Ser Ser Ile Val Ser Phe Tyr Val Pro Leu Val Ile Met
208 210 215 220
209 Val Phe Val Tyr Ser Arg Val Phe Gln Glu Ala Lys Arg Gln Leu Gln
210 225 230 235 240
211 Lys Ile Asp Lys Ser Glu Gly Arg Phe His Val Gln Asn Leu Ser Gln
212 245 250 255
213 Val Glu Gln Asp Gly Arg Thr Gly His Gly Leu Arg Arg Ser Ser Lys
214 260 265 270
215 Phe Cys Leu Lys Glu His Lys Ala Leu Lys Thr Leu Gly Ile Ile Met
216 275 280 285
217 Gly Thr Phe Thr Leu Cys Trp Leu Pro Phe Phe Ile Val Asn Ile Val
218 290 295 300
219 His Val Ile Gln Asp Asn Leu Ile Arg Lys Glu Val Tyr Ile Leu Leu
220 305 310 315 320
221 Asn Trp Ile Gly Tyr Val Asn Ser Gly Phe Asn Pro Leu Ile Tyr Cys
222 325 330 335
223 Arg Ser Pro Asp Phe Arg Ile Ala Phe Gln Glu Leu Leu Cys Leu Arg

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```

224          340          345          350
225 Arg Ser Ser Leu Lys Ala Tyr Gly Asn Gly Tyr Ser Ser Asn Gly Asn
226          355          360          365
227 Thr Gly Glu Gln Ser Gly Tyr His Val Glu Gln Glu Lys Glu Asn Lys
228          370          375          380
229 Leu Leu Cys Glu Asp Leu Pro Gly Thr Glu Asp Phe Val Gly His Gln
230 385          390          395          400
231 Gly Thr Val Pro Ser Asp Asn Ile Asp Ser Gln Gly Arg Asn Cys Ser
232          405          410          415
233 Thr Asn Asp Ser Leu Leu Glu Glu Glu Glu Tyr Met Pro Met Glu
234          420          425          430
236 <210> SEQ ID NO: 9
237 <211> LENGTH: 488
238 <212> TYPE: PRT
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: target sequence
244 <400> SEQUENCE: 9
245 Met Ala Thr Leu Pro Ala Ala Glu Thr Trp Ile Asp Gly Gly Gly Gly
246 1          5          10          15
247 Val Gly Ala Asp Ala Val Asn Leu Thr Ala Ser Leu Ala Ala Gly Ala
248          20          25          30
249 Ala Thr Gly Ala Val Glu Thr Gly Trp Leu Gln Leu Leu Asp Gln Ala
250          35          40          45
251 Gly Asn Leu Ser Ser Ser Pro Ser Ala Leu Gly Leu Pro Val Ala Ser
252          50          55          60
253 Pro Ala Pro Ser Gln Pro Trp Ala Asn Leu Thr Asn Gln Phe Val Gln
254 65          70          75          80
255 Pro Ser Trp Arg Ile Ala Leu Trp Ser Leu Ala Tyr Gly Val Val Val
256          85          90          95
257 Ala Val Ala Val Leu Gly Asn Leu Ile Val Ile Trp Ile Ile Leu Ala
258          100          105          110
259 His Lys Arg Met Arg Thr Val Thr Asn Tyr Phe Leu Val Asn Leu Ala
260          115          120          125
261 Phe Ser Asp Ala Ser Met Ala Ala Phe Asn Thr Leu Val Asn Phe Ile
262          130          135          140
263 Tyr Ala Leu His Ser Glu Trp Tyr Phe Gly Ala Asn Tyr Cys Arg Phe
264 145          150          155          160
265 Gln Asn Phe Phe Pro Ile Thr Ala Val Phe Ala Ser Ile Tyr Ser Met
266          165          170          175
267 Thr Ala Ile Ala Val Asp Arg Tyr Met Ala Ile Ile Asp Pro Leu Lys
268          180          185          190
269 Pro Arg Leu Ser Ala Thr Ala Thr Lys Ile Val Ile Gly Ser Ile Trp
270          195          200          205
271 Ile Leu Ala Phe Leu Leu Ala Phe Pro Gln Cys Leu Tyr Ser Lys Thr
272          210          215          220
273 Lys Val Met Pro Gly Arg Thr Leu Cys Phe Val Gln Trp Pro Glu Gly
274 225          230          235          240
275 Pro Lys Gln His Phe Thr Tyr His Ile Ile Val Ile Ile Leu Val Tyr

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**VERIFICATION SUMMARY**

DATE: 06/09/2005

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